

PATENT APPLICATION

Docket No. 13316/3295 (Formerly 2777/3295)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of PURI, Atul et al.

Application No.: 10/811,983 Group Art Unit: 2631

Filed: March 30, 2004 Examiner: To Be

Assigned

For H.264/AVC CODER INCORPORATING

RATE AND QUALITY CONTROLLER

Customer No.: 23838

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MAIL STOP AMENDMENTS Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. PTO/SB/08, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). It is believed that no fees other than those indicated below are due, but authorization is hereby given to charge any additional fees due, or to credit any overpayment, to deposit account 11-0600.

This Information Disclosure Statement is being filed (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, OR (d)



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before the mailing of a first office action after filing of a request for continued examination. No certification or fee is required.

An English-language Abstract of non-English language reference 87 is attached hereto.

In references 136 and 156, the cited chapters of *Digital Multimedia Standards* and *Multimedia Systems, Standards, and Networks* are considered relevant. In order that the Examiner may note all chapters of these books, copies of the tables of contents are also enclosed. If the Examiner desires copies of any of the other chapters of these books, it is requested that he/she contact the undersigned.

In accordance with U.S. practice, copies of the U.S. references are not included. Copies of the following references are attached:

| 87-100 | 118 | 133 | 139 | 145 | 155 |
|--------|---------|-----|-----|-----|------|
| 105 | 120 | 134 | 140 | 147 | 156. |
| 108 | 125-127 | 136 | 142 | 148 | |
| 115 | 130 | 137 | 143 | 150 | |

Respectfully submitted,

KENYON & KENYON

Date: July 7, 2005

Robert L. Hails, Jr. / Registration No. 39,70

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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
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Substitute for for Complete if Known Application Number 10/811,983 INFORMATION DISCLOSURE Filing Date 03/30/2004 STATEMENT BY APPLICANT First Named Inventor PURI, Atul Art Unit 2631 (Use as many sheets as necessary) Examiner Name to be assigned Sheet 1 of 10 Attorney Docket Number 13316/3295

| | U.S. PATENT DOCUMENTS | | | | | |
|------------------------|--------------------------|-------------------------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------|--|
| Examiner Initials * | Cite No. ¹ | Document Number Number - Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant | |
| | 1 | US- 2,905,756 | 09/22/1959 | Graham | Figures Appear | |
| | 2 | US- 4,245,248 | 01/13/1981 | Netravali et al. | | |
| | 3 | US- 4,394,680 | 07/19/1983 | Watanabe | - · | |
| | 4 | US- 4,717,956 | 01/05/1988 | Moorhead et al. | | |
| | 5 | US- 4,920,414 | 04/24/1990 | Remus et al. | | |
| | 6 | US- 4,958,226 | 09/18/1990 | Haskell <i>et al</i> . | | |
| | 7 | US- 4,999,705 | 03/12/1991 | Puri | | |
| | 8 | US- 5,001,559 | 03/1991 | Gonzales et al. | | |
| | 9 | US- 5,086,346 | 02/04/1992 | Fujisawa | | |
| | 10 | US- 5,116,287 | 05/26/1992 | Hironaka et al. | | |
| | 11 | US- 5,117,283 | 05/26/1992 | Kroos et al. | | |
| | 12 | US- 5,134,476 | 07/28/1992 | Aravind et al. | | |
| | 13 | US- 5,136,659 | 08/04/1992 | Kaneko <i>et al</i> . | | |
| | 14 | US- 5,170,264 | 12/08/1992 | Saito et al. | | |
| | 15 | US- 5,189,526 | 02/23/1993 | Sasson | | |
| | 16 | US- 5,194,941 | 03/16/1993 | Grimaldi et al. | | |
| | 17 | US- 5,196,933 | 03/1993 | Henot | | |
| | 18 | US- 5,214,507 | 05/25/1993 | Aravind et al. | | |
| | 18 | US- 5,214,721 | 05/25/1993 | Fukuhara et al. | | |
| | 20 | US- 5,227,878 | 07/13/1993 | Puri et al. | | |
| | 21 | US- 5,247,590 | 09/21/1993 | Fukuhara et al. | | |
| | 22 | US- 5,253,055 | 10/12/1993 | Civanlar et al. | | |
| | 23 | US- 5,253,056 | 10/12/1993 | Puri et al. | | |
| | 24 | US- 5,270,813 | 12/14/1993 | Puri et al. | | |
| | 25 | US- 5,278,646 | 06/11/1994 | Civanlar | | |
| - | 26 | US- 5,345,317 | 09/06/1994 | Katsuno et al. | | |
| | 27 | US- 5,408,328 | 04/18/1995 | Boliek et al. | | |
| | 28 | US- 5,414,469 | 03/09/1995 | Gonzales et al. | | |
| | 29 | US- 5,436,985 | 07/25/1995 | Li | | |
| | 30 | US- 5,454,051 | 09/26/1995 | Smith | | |
| | 31 | US- 5,465,119 | 11/07/1995 | Demos | | |
| | 32 | US- 5,467,136 | 11/14/1995 | Odaka et al. | | |

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| Examiner Signature | Date Considered | |

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| INFO | | DIC | CL OCUDE | Application Number | 10/811,983 |
| | | | CLOSURE | Filing Date | 03/30/2004 |
| STATEMENT BY APPLICANT | | | PPLICANT | First Named Inventor | PURI, Atul |
| | | | | Art Unit | 2631 |
| | (Use as many she | ets as | necessary) | Examiner Name | to be assigned |
| Sheet | 2 | of | 10 | Attorney Docket Number | 13316/3295 |

| | | | U.S. PATENT D | OCUMENTS | |
|--------------|--------------------------------------------|-----------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------|
| Examiner | Examiner Cite | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant |
| Initials No. | Number - Kind Code ² (if known) | WIWI-DD-1111 | | Figures Appear | |
| | 33 | US- 5,473,376 | 12/05/1995 | Auyeung | |
| | 34 | US- 5,488,418 | 01/30/1996 | Mishima et al. | |
| | 35 | US- 5,493,513 | 02/20/1996 | Keith et al. | |
| | 36 | US- 5,500,678 | 03/19/1996 | Puri | |
| | 37 | US- 5,524,024 | 06/04/1996 | Lin | |
| | 38 | US- 5,532,747 | 07/02/1996 | Yoon et al. | |
| | 39 | US- 5,539,468 | 07/23/1996 | Suzuki et al. | |
| | 40 | US- 5,561,477 | 10/01/1996 | Polit | |
| - | 41 | US- 5,566,002 | 10/15/1996 | Shikakura | |
| | 42 | US- 5,592,569 | 01/07/1997 | Li | |
| | 43 | US- 5,600,375 | 4/1997 | Wickstrom | |
| | 44 | US- 5,619,591 | 04/08/1997 | Tsang et al. | |
| | 45 | US- 5,659,490 | 08/19/1997 | Imamura | |
| | 46 | US- 5,633,684 | 05/27/1997 | Teranishi <i>et al.</i> | |
| | 47 | US- 5,699,117 | 12/16/1997 | Uramoto et al. | |
| | 48 | US- 5,737,022 | 04/07/1998 | Yamaguchi et al. | |
| | 49 | US- 5,748,789 | 05/05/1998 | Lee et al. | |
| | 50 | US- 5,757,969 | 05/26/1998 | Kim | |
| | 51 | US- 5,757,971 | 05/26/1998 | Kim | |
| | 52 | US- 5,764,374 | 06/09/1998 | Seroussi et al. | |
| | 53 | US- 5,764,805 | 06/09/1998 | Martuci et al. | |
| | 54 | US- 5,778,097 | 07/07/1998 | Nickerson | |
| | 55 | US- 5,781,665 | 07/19/1998 | Cullen et al. | |
| | 56 | US- 5,786,855 | 07/28/1998 | Chen et al. | |
| | 57 | US- 5,790,695 | 08/16/1998 | Suwa | |
| | 58 | US- 5,812,197 | 09/22/1998 | Chan et al. | |
| | 59 | US- 5,818,532 | 10/06/1998 | Malladi et al. | |
| | 60 | US- 5,832,115 | 11/16/1998 | Rosenberg | |

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| INIEO | DMATION | DIO | | Application Number | 10/811,983 |
| | - | | CLOSURE | Filing Date | 03/30/2004 |
| STAT | STATEMENT BY APPLICANT | | First Named Inventor | PURI, Atul | |
| | | | | Art Unit | 2631 |
| | (Use as many she | ets as | necessary) | Examiner Name | to be assigned |
| Sheet | 3 | of | 10 | Attorney Docket Number | 13316/3295 |

| | | | U.S. PATENT D | OCUMENTS | |
|---------------|--------------------------------------------|-----------------|------------------|-------------------------------------|----------------------------------------|
| Examiner Cite | | Document Number | Publication Date | Name of Patentee or Applicant of | Pages, Columns, Lines, Where Relevant |
| Initials No.1 | Number - Kind Code ² (if known) | MM-DD-YYYY | Cited Document | Passages or Relevant Figures Appear | |
| | 61 | US- 5,835,149 | 11/10/1998 | Astle | |
| | 62 | US- 5,850,294 | 12/18/1998 | Aposolopoulos et al. | |
| | 63 | US- 5,852,473 | 12/22/1998 | Horne et al. | |
| | 64 | US- 5,852,682 | 12/22/1998 | Kim | |
| | 65 | US- 5,859,921 | 01/12/1999 | Suzuki | |
| | 66 | US- 5,881,180 | 03/09/1999 | Chang et al. | |
| | 67 | US- 5,883,981 | 03/16/1999 | Li et al. | |
| | 68 | US- 5,912,991 | 06/15/1999 | Jeon et al. | |
| | 69 | US- 5,963,257 | 10/05/1999 | Katata et al. | |
| | 70 | US- 5,966,468 | 10/12/1999 | Fujimoto | |
| | 71 | US- 5,974,172 | 10/26/1999 | Chen | |
| | 72 | US- 5,974,184 | 10/26/1999 | Eifrig et al. | |
| | 73 | US- 5,978,509 | 11/02/1999 | Nachtergaele et al. | |
| | 74 | US- 5,978,510 | 11/02/1999 | Chung et al. | |
| | 75 | US- 5,999,189 | 12/07/1999 | Kajiya et al. | 1 2 1 |
| | 76 | US- 5,999,219 | 12/07/1999 | Boon | |
| | 77 | US- 6,005,980 | 12/21/1999 | Eifrig et al. | |
| - | 78 | US- 6,026,183 | 02/15/2000 | Talluri et al. | ************************************** |
| | 79 | US- 6,055,623 | 12/21/1999 | Takahashi <i>et al.</i> | |
| | 80 | US- 6,057,884 | 05/02/2000 | Chen et al. | |
| | 81 | US- 6,097,842 | 08/01/2000 | Suzuki et al. | |
| | 82 | US- 6,141,442 | 10/31/2000 | Chen | |
| - | 83 | US- 6,148,026 | 11/14/2000 | Puri et al. | |
| | 84 | US- 6,208,693 | 03/27/2001 | Chen et al. | |
| | 85 | US- 6,233,356 | 05/15/2001 | Haskell et al. | |
| | 86 | US- 6,459,732 | 10/01/2002 | Chen et al. | |

| Examiner Signature | Date Considered | |
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Attorney Docket Number

| | | | FOREIGN | PATENT DOCUMENTS | | |
|-----------------------|--------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------|----------------|
| Examiner Initials* | Cite No.1 | Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (<i>if known</i>) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | 87 | EP 0 283 715 A2 | 09/28/1988 | ANT Nachrichtentechnik GmbH | | Abs. |
| | 88 | EP 0 400 756 A2 | 12/05/1990 | N.V. Philips' Gloeilampenfabrieken Groenewoudseweg | | |
| | 89 | EP 0 422 404 A2 | 04/17/1991 | International Business Machines Corporation | | |
| 1 | 90 | EP 0 514 663 A2 | 11/25/1992 | International Business Machines Corporation | | |
| | 91 | EP 0 517 256 A2 | 12/09/1992 | Sony Corporation | | |
| | 92 | EP 0 534 350 | 03/31/1993 | Matsushita Electric Industrial Co., Ltd (JP) | | |
| | 93 | EP 0 540 961 A2 | 05/12/1993 | International Business Machines Corporation | | |
| | 94 | EP 0 566 219 A2 | 10/20/1993 | Canon Kabushiki Kaisha | | |
| | 95 | EP 0 582 819 A2 | 02/16/1994 | Sony Corporation | | |
| | 96 | WO 94/27252 A | 11/24/1994 | Competitive Technologies, Inc. | | |
| | 97 | EP 0 746 159 A2 | 12/12/1996 | Matsushita Electric Industrial Co., Ltd. | | |
| | 98 | EP 0 753 970 A2 | 01/15/1997 | Sharp Kabushiki Kaisha | | |
| | 99 | CA 2,168,641 | 03/28/2000 | Kabushiki Kaisha Toshiba, JP | | |

| Examiner Da Signature Co | ate onsidered |
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| | NON PATENT LITERATURE DOCUMENTS | | | | | |
|---------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Examiner Initials * | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | |
| | 100 | CHEN, T., MPEG4 Video Verification Model VM 5.0, pages 2-192 | | | | |
| | 101 | FUKINUKI, T.; "Measurement of Movement and Velocity of Moving Objects with Picture Signals"; IE78-67; pages 35-41; Central Research Laboratory; Hitachi, Ltd.; Kokubunji, Tokyo, Japan, 185; and English translation | | | | |
| | 102 | KOGA, T. et al.; "Motion-Compensated Interframe Coding for Video Conferencing"; IE81-54; pages 85-90, C&C Systems Research Laboratories; Nippon Electric Co., Ltd; and English translation | | | | |
| | 103 | NONOMIYA, Y.; "Motion Correction for Interframe Coding Systems," IE78-6; pages 1-10; General Technology Research Institute; Nippon Broadcasting Association; and English translation | | | | |
| | 104 | Web site material, "MPEG-4: A Flexible Coding Standard for the Emerging Mobile Multimedia Applications," http://www.tnt.uni-hannover.de/project/eu/momusys/docs/Paper/IST/pimrc/pimrc.html | | | | |
| | 105 | COHEN et al., "Adaptative Differential Coding of Picture Signals Based on Local Contour Prediction," Communications and Knowledge, Partners in Progress, November 29, 30 - December 1, 1976, Dallas, Texas | | | | |
| | 106 | PLOYSONGSANG, A. et al., "DCT/DPCM Processing of NTSC Composite Video Signal," IEEE Transactions On Communications, vol. COM-30, no. 3, pp. 541-549, XP002062314, ISSN: 0090-6778, 1 March 1982 (1982-03-01) | | | | |
| | 107 | CHAM et al., "DC Coefficient Restoration in Transform Image Coding," IEE Proceedings, Vol. 131, Pt. F, No. 7, pages 709 - 713, December 1984 | | | | |
| | 108 | SEE et al., "Efficient Encoding of DC Coefficients in Transform Coding of Images Using JPEG Scheme," Signal Image and Video Processing, Vol. 1, No. Symp. 24, published 11/06/1991, Institute of Electrical and Electronics Engineers, June 11-14, 1991, pages 404-407, Singapore | | | | |
| | 109 | KIM, J. W. et al., "A Transform Domain Classified Vector Quantizer for Image Coding," IEEE Transactions on Circuit and Systems for Video Technology, pp. 3-14, XP002115624, March 1992 (1992-03) | | | | |
| | 110 | PURI, A., "Invited address: Video Coding Using the MPEG-1 Compression Standard," AT&T Bell Labs, Holmdel, NJ, 1992 SID Int'l. Symposium Digest of Technical Papers, Society for Information Display, Playa del Rey, CA, May 1992 | | | | |
| | 111 | DE NATALE, F. G. B. et al.: "Adaptive DCT For Image-Data Compression," European Transactions on Telecommunications and Related Technologies, vol. 3, no. 4, pp. 359-366, XP000310681, ISSN: 1120-3862, 1 July 1992 (1992-07-01) | | | | |

| Examiner | Date | |
|-----------|------------|--|
| Signature | Considered | |

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Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| INIEO | | N DIC | CLOCUDE | Application Number | 10/811,983 |
| | | | CLOSURE | Filing Date | 03/30/2004 |
| STATEMENT BY APPLICANT | | | | First Named Inventor | PURI, Atul |
| | | | | Art Unit | 2631 |
| (Use as many sheets as necessary) | | Examiner Name | to be assigned | | |
| Sheet | 6 | of | 10 | Attorney Docket Number | 13316/3295 |

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| , | 112 | KOK, C. W. et al.: "Image Coding Using DCT of Wavelet Coefficients," Proceedings of the IEEE-SP International Symposium Time-Frequency and Time-Scale Analysis (CT. No. 92TH0478-8), pp. 475-478, XP002115625 1992, NY, NY, IEEE, USA ISBN: 0-7803-0805, Victoria, BC, Canada, 4-6 Oct. 1992 | | | | | |
| | 113 | TEST MODEL EDITING COMMITTEE, TELECOMMUNICATION STANDARDIZATION SECTOR, STUDY GROUP 15, EXPERTS GROUP FOR ATM VIDEO CODING (RAPPORTEUR'S GROUP ON PART OF Q.2/15), INTERNATIONAL ORGANISATION FOR STANDARDISATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO-IEC/JTC1/SC29/WG11 MPEG93/457, "Test Model 5," Draft, Document AVC-491, Version 1, Coded Representation of Picture and Audio Information, April 1993 | | | | | |
| | 114 | PURI, A., "Video Coding Using the MPEG Compression Standard," AT&T Bell Labs, Holmdel, NJ, Visual Communications and Image Processing '93, Haskell <i>et al.</i> Chairs/Editors, Cambridge, MA, pages 1701-1713, Vol. 2094, Part Three, SPIE - The Int'l. Society for Optical Engineering, Bellingham, WA, November 8-11, 1993 | | | | | |
| | 115 | INTERNATIONAL ORGANISATION FOR STANDARDISATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC1/SC29/WG11, N0702 (revised); Incorporating N0702 (revised), incorporating N702 Delta of 24 March and Further Editorial Corrections; "Information Technology — Generic Coding of Moving Pictures and Associated Audio Information: Video, Recommendation H.262"; ISO/IEC 13818-2; May 10, 1994 | | | | | |
| | 116 | SCHMIDT et al., "Performance Evaluation of Nonscalable MPEG-2 Video Coding," AT&T Bell Laboratories, Holmdel, New Jersey, Visual Communications and Image Processing '94, Katsaggelos, Aggelos K., Chair/Editor, Chicago, Illinois, Pages 296-310, Vol 2308, Part One, SPIE – The International Society for Optical Engineering, Bellingham, Washington, September 25-29, 1994 | | | | | |
| | 117 | INTERNATIONAL ORGANISATION FOR STANDARDISATION; Generic Coding of Moving Picture and Associated Audio Information; Video; ISO/IEC JTC1/SC29/WG11 NXXXX; ISO/IEC 13818-2, November 1994 | | | | | |
| | 118 | AlZAWA & HUANG, "Model-Based Image Coding: Advanced Video Coding techniques for Very Low Bit-Rate Applications," <i>Proceedings of the IEEE</i> , February 1995, vol. 83, no. 2, pp. 259-271 | | | | | |
| | 119 | AOE SUB GROUP; ORGANISATION INTERNATIONALE DE NORMALISATION; "MPEG-4 Proposal Package Description (PPD) - Revision 2 (Lausanne Revision)"; Source: ISO/IEC JTC1/SC29/WG11 N0937, MPEG 95/ Coding of Moving Pictures and Associated Audio Information; March 1995 | | | | | |
| | 120 | HARTMAN et al., The VRML 2.0 Handbook Building Moving Worlds on the Web, pages 45-46, 264-265, Silicon Graphics, Inc. Addison-Wesley Publishing Co., 1996 | | | | | |

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Substitute for form 1449G/PTO Complete if Known Application Number 10/811,983 INFORMATION DISCLOSURE Filing Date 03/30/2004 STATEMENT BY APPLICANT First Named Inventor PURI, Atul Art Unit 2631 (Use as many sheets as necessary) Examiner Name to be assigned Sheet Attorney Docket Number 13316/3295 of

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| | 121 | PURI, Atul, "Status and Direction of the MPEG-4 Standard," AT&T Bell Labs, Holmdel, NJ, Multimedia Communications and Video Coding, Wang et al., Editors, pages 349-356, Plenum Press, New York, 1996 | | | | | |
| | 122 | CHIARIGLIONE, Leonard, Florence Press Release, Source: "MPEG Press Release," Int'l Organisation for Standardisation, Coding of Motion Pictures and Audio, ISO/IEC JTC1/SC29/WG11N 1249, pp. 1-3, Firenze (Florence), Exhibit B, March 1996 | | | | | |
| | 123 | PURI et al., "Initial B-Picture Syntax Proposal for MPEG-4 Video," Int'l Organisation for Standardization, Coding of Moving Pictures and Associated Audio, ISO/IEC JTC1/WG11/MPEG 96/ 0776, Florence, March 1996 | | | | | |
| | 124 | PURI et al., "SBASIC Video Coding and Its 3D-DCT Extension for MPEG-4 Multimedia," AT&T Bell Labs, Holmdel, NJ, Visual Communications and Image Processing '96, Ansari et al., Chairs/Editors, Orlando, FL, pages 1331-1341, Vol. 2727, Part Three, SPIE - The Int'l. Society for Optical Engineering, Bellingham, WA, March 17-20, 1996 | | | | | |
| | 125 | RIJKSE, Karel, Contact Person, Int'l. Telecommunication Union, ITU-T Draft H.263, Telecommunication, Standardization Sector of ITU, Line Transmission of Non-Telephone Signals, "Video Coding for Low Bitrate Communication," Draft ITU-T Recommendation H.263, http://www.image.cityu.edu.hk/~stwkchan/h263/h263.html , pp. 1-49, May 2, 1996 | | | | | |
| | 126 | AD HOC GROUP ON MPEG-4 VIDEO VM EDITING, "MPEG-4 Video Verification Model Version 2.1, Source: Video Group, International Organization for Standardisation; Coding of Moving Pictures and Associated Audio Information ISO/IEC JTC1/29/WG11 XXXX, pp. 1-69, May 3, 1996 | | | | | |
| | 127 | SCHMIDT, R. L., PURI, A. and HASKELL, B. G. (AT&T); INTERNATIONAL ORGANISATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC1/SC29/WG11, MPEG96/1084; Coding of Moving Pictures and Associated Audio, "Results of Scalability Experiments"; Tampere, Finland, July 1996 | | | | | |
| | 128 | TAN, T. K. and SHEN, S. M., "Intra Prediction (T9/T10) and DC/AC Prediction Results"; INTERNATIONAL ORGANISATION FOR STANDARDISATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC1/SC29/WG11, MPEG 96/0939; Source: Panasonic Singapore Laboratories Pte Ltd (Matsushita); Coding of Moving Pictures and Associated Audio Information; July 1996 | | | | | |
| | 129 | SULLIVAN, Gary J., Contact, "Altered Sections of H.263 for Draft Text of H.263+"; ITU - Telecommunications Standardization SectorDocument: ITU-LBC-96-358R1, STUDY GROUP 15, LBC Experts Group, Shepperton, UK, July 15-18, 1996 | | | | | |

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| INITO | | DIC | CLOCUDE | Application Number | 10/811,983 |
| | - | | CLOSURE | Filing Date | 03/30/2004 |
| STAT | STATEMENT BY APPLICANT | | | First Named Inventor | PURI, Atul |
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| | 130 | "The Virtual Reality Modeling Language Specification," Version 2.0, ISO-IEC CD 14772, August 4, 1996 | | | | | |
| | 131 | AD HOC GROUP ON MPEG-4 VIDEO VM EDITING, "MPEG-4 VIDEO VERIFICATION MODEL VERSION 3.2," INTERNATIONAL ORGANISATION FOR STANDARDISATION, ISO/IEC JTC1/SC29/WG11, Coding of Moving Pictures and Associated Audio Information, Chicago, September 1996 | | | | | |
| | 132 | PURI, A., SCHMIDT, R. L. and HASKELL, B. G. (AT&T); INTERNATIONAL ORGANISATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC1/SC29/WG11 MPEG96/1320; Coding of Moving Pictures and Associated Audio; "Description and Results of Coding Efficiency Experiment T9 (part 4) in MPEG-4 Video"; Sept. 1996, Chicago | | | | | |
| | 133 | CHEN et al., IEEE International Conference on Image Processing, "An Approach to Region Coding for Content-Based Scalable Video," September 16, 1996, vol. 3, pp. 399-402 | | | | | |
| | 134 | EBRAHIMI, T., OSTERMANN, J., O'CONNELL, K., JANG, E.S. and the Ad hoc Group on Video Working Draft Editing; INTERNATIONAL ORGANIZATION FOR STANDARDISATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC1/SC29/WG11 N1470, MPEG96/ Maceio, "Working Draft 1.0 of ISO/IEC 14496-2," A. Puri (Editor), Coding of Moving Pictures and Audio, Nov. 1996 | | | | | |
| | 135 | AD HOC GROUP ON MPEG-4 VIDEO VM EDITING; INTERNATIONAL ORGANISATION FOR STANDARDISATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC1/SC29/WG11, MPEG 96/XXXX, Coding of Moving Pictures and Associated Audio Information, "MPEG-4 Video Verification Model Version 5.1"; Dec. 1996 | | | | | |
| | 136 | HASKELL, Barry G., PURI, Atul and NETRAVALi, Arun N., "Digital Video: An Introduction To MPEG-2," Digital Multimedia Standards; Chapters 7-9, pp. 146-229, 1997 | | | | | |
| | 137 | HASKELL, Barry G., PURI, Atul and NETRAVALi, Arun N., "Digital Video: An Introduction To MPEG-2," Digital Multimedia Standards; Chapter 17, "MPEG-4 and the Future," 1997 | | | | | |
| - | 138 | Web site material, "MPEG-4 Video and Its Potential for Future Multimedia Services," http://wwwam.hhi.de/mpeg-video/papers/ sikora/iscas.htm (1/27/97) | | | | | |
| | 139 | CHEN et al., IEEE Transactions on Circuits and Systems for Video Technology, "Coding of Subregions for Content-Based Scalable Video," vol. 7, No. 1, pp. 256-260, February 1997 | | | | | |

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| INFORMATION DISCLOSURE | | | | Filing Date | 03/30/2004 |
| STATEMENT BY APPLICANT | | | PPLICANT | First Named Inventor | PURI, Atul |
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| | 140 | TEKALP & VAN BEEK, "CORE EXPERIMENT M2: Triangular Mesh-Based Coding with Object-Based Functionalities," International Organization for Standardisation - University of Rochester, ISO/IEC JTC1/SC29/WG11 MPEG96/1627, pages 1-18, February 1997 |
| | 141 | PURI et al., "Improvements in DCT Based Video Coding," AT&T Laboratories, Visual Communications and Image Processing '97, San Jose, California, SPIE - The International Society for Optical Engineering, Bellingham, Washington, February, 1997 |
| | 142 | EBRAHIMI, T., HORNE, C., OSTERMANN, J., JANG, E.S., and the Ad hoc Groups on Video & SNHC VM/WD Editing; Source: Video & SNHC Groups; INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION, ISO/IEC JTC1/SC29/ WG11 N1797, MPEG97/, "Working Draft 4.0 of ISO/IEC 14496-2"; A. Puri (Editor); Stockholm, July 1997 |
| | 143 | ELEFTHERIADIS et al., editors, "Text for CD 14496-1 Systems," Int'l. Organization for Standardisation, Coding of Moving Pictures and Audio, ISO/IEC JTC1/SC29/ WG11, N1901, pp. i-207, November 21, 1997 |
| | 144 | PURI et al., "Current and Future Trends in Multimedia Standards," Multimedia Technology for Applications, Sheu et al., Editors, Chapter 1, pages 3-35, IEEE Press Marketing, Piscataway, NJ, 1998 |
| | 145 | PURI, A. and ELEFTHERIADIS, A., "MPEG-4: An Object-Based Multimedia Coding Standard Supporting Mobile Applications" invited paper in <i>Mobile Networks and Applications</i> , 3, pp. 5-32, 1998 |
| | 146 | Web site material, "The Structure of the MPEG-4 Video Coding Algorithm," http://www.ee.iisc.ernet.in/people/students/gupta/ Mpeg4/Coding/fmpeg4vm.htm (3/1/98) |
| | 147 | INT'L. ORGANIZATION FOR STANDARDISATION, CODING OF MOVING PICTURES AND AUDIO, ISO/IEC JTC1/SC29/ WG11, N2403, "MPEG-4 Standard Completed," 6 pages, October12-16, 1998 |
| | 148 | FDIS/BIFS, Technical Paper, Chapter 9, Sections 9.1 through 9.4.2.100.2, 16:37, November 23, 1998 |
| | 149 | MPEG-4 Systems, "Coding of Audio-Visual Objects: Systems," ISO/IEC JTC 1/SC 29/WG 11, N2501, ISO/IEC 14496-1:1999(E), December 18, 1998 |

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| INFORMATION DISCLOSURE | Filing Date | 03/30/2004 |
| STATEMENT BY APPLICANT | First Named Inventor | PURI, Atul |
| | Art Unit | 2631 |
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| | 150 | PURI et al., "Scene Description, Composition, and Playback Systems for MPEG-4," SPIE, Visual Communications and Image Processing '99, San Jose, California, pp. 2-13, January 25-27, 1999 | | |
| | 151 | PURI, A. and TEKALP, A. M., "MPEG-4 and MPEG-7 Standards," Electronic Imaging, Course Notes, San Jose, January 1999 | | |
| | 152 | MPEG-4 SYSTEMS GROUP, N2739, "Text for ISO/IEC 14496-1/PDAM1," ISO/IEC JTC1/SC29/WG11, March 1999 | | |
| | 153 | MPEG-4 SYSTEMS GROUP, N2741, "MPEG-4 Systems Version 2 Verification Model 6.0," ISO IEC JTC1/SC29/WG11, March 1999 | | |
| | 154 | Web site material, "Object-Based Coding," http://www.ece.concordia.ca/ÿsorial/seminar1/node18.html (7/14/99) | | |
| - | 155 | LIFSHITZ, Z., DICAGNO, G., FRANCESCHINI, G. and BATTISTA, S., "MPEG-4 Players Implementation," Multimedia Systems, Standards, and Networks, Puri, A. and Chen, T., Editors, Chapter 16, pp. 461-486, Marcel Dekker, Inc., New York, New York, 2000 | | |
| | 156 | PURI, A. and CHEN, T., editors, <i>Multimedia Systems, Standards, and Networks</i> , Chapters 3-5, 7-9, 12 and 13; Marcel Dekker, Inc., New York, New York, 2000 | | |
| | 157 | INT'L. ORGANISATION FOR STANDARDISATION; CODING OF MOTION PICTURES AND AUDIO, ISO/IEC 14496-2: 1999/Amd. 1:2000(E); ISO/IEC JTC1/SC29/WG11; SC 29 Secretariat: JISC; "Information Technology - Coding of Audio-Visual Objects - Part 2: Visual, Amendment 1: Visual Extensions; Exhibit D; January 31, 2000 | | |

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